

DIRECTORY

of
MEMBERS
of

PHIL-MONT MOBILE RADIO CLUB INC.

1964



W3RQZ W3TKQ

The Blue

A Publication of

THE PHIL-MONT MOBILE RADIO CLUB, INC.
P.O. Box 88, ABINGTON, PA 19001



JACK HARING
VIRGINIA HARING - W3IIM
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W3IIM
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FIRST CLASS MAIL

VOLUME 44

is published monthly by, and for, the members of **The PHIL-MONT MOBILE RADIO CLUB, INC.** whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs; requests should be sent to the Editor. *Blurb* subscriptions are available to nonmembers for \$10.00 addressed to the Treasurer. The club meets sometime after 7:30 p.m. on the first non-holiday WEDNESDAY of every month at **The Franklin Institute Science Museum**, Benjamin Franklin Parkway at 20th Street, Philadelphia. Enter from Winter Street, or parking garage on 21st street.

ALL VISITORS ARE WELCOME!

Amateur Radio License Examinations - the first non-holiday Thursday of every month at The Franklin Institute Science Museum—doors close at 6:30 p.m. - *SHARP!*

CLUB INFORMATION

24-Hour Information Number at W3TKQ: **(215) 448-1139**

Repeater frequencies: 147.03 MHz (Roxboro input requires no PL, but outputs 91.5 Hz.)

PL required for off-site receiver (OSR) access:

Bucks County 131.8 Hz—Center City 103.5 Hz—Lansdale 114.8 Hz

444.80 MHz (186.2 Hz PL)

Simplex frequency: 147.51 MHz

Packet BBS frequency at W3TKQ: 144.99 MHz

Mailing Address: P.O. Box 88, Abington, PA 19001

STATIONS

W3QV - 147.03 MHz. Repeater - 8200 Ridge Avenue, Philadelphia, PA - Trustee W3BBB

W3TKQ - The Franklin Institute Science Museum, Philadelphia, PA - Trustee W3PWG

AMATEURS (with license) ARE ALWAYS WELCOME TO OPERATE W3TKQ.

OFFICERS

PRESIDENT: KB3IV, Ed Masarsky, 15 Poe Avenue, Wyncote, PA 19095 (215) 572-5238

1st VICE PRESIDENT: WU3I, Steve Hoch, 4638 Oakland Street, Philadelphia, PA 19124 (215) 535-8061

2nd VICE PRESIDENT: W3STW, Al Tribble, 2848 Carter Road, Trevose, PA 19053 (215) 639-6771

SECRETARY: KE3CZ, Bob Wilcox, P.O. Box 21914, Philadelphia, PA 19124 (215) 535-7355

TREASURER: N3KGG, Dave Witkowski, 730 Greymont Street, Philadelphia, PA 19116 (215) 969-5485

DIRECTORS

W3BBB (94); N3FVI (94); AA3EP (95); W3IRS (95); W3IIM (A); K3KUD (A); W3RM (A)

COMMITTEES

Archives: W3IIM
Blurb Folding: WB3KOJ
Budget/Audit: K3KUD
Directory: WB3KOJ
Education: AA3CH
Emerg. Coord.: W3BBB

Field Day: N3IEI
Membership: AA3BB
Net Control: KB3IV
Program: WU3I
Publicity: N3IEI
Refreshments: N3FVI

Repeater: W3BBB
Special Events: AA3EP
VE Program: ND3Q
TVI: W3VVS
W3TKQ: KB3IV
Welcome: NEEDED

Blurb STAFF

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Artist: N3QIE

Labels: WB3KOJ

Publisher/Typist: W3IIM

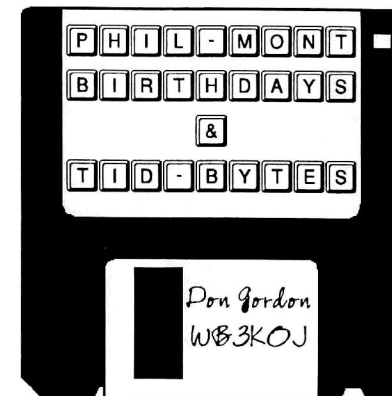
DEADLINE: To be assured of publication in the current month, all copy **MUST** be in the hands of the Editor at the Bored of Directors' Meeting!

NET SCHEDULE

SUNDAY	09:30	147.030 MHz FM	"SUNDAY MORNING 2 METER NET"
	10:00	28.993 MHz SSB	"10-ON-10 NET"
	10:20	3.993 MHz SSB	75 METER NET
TUESDAY	20:00	147.030 MHz FM	CW PRACTICE NET
LAST WED	20:00	147.030 MHz FM	W3TKQ OPERATORS' NET

APRIL BIRTHDAYS

- 01 Tracal Top - N3PDP*
- 02 Frenchy Andrews - W3IRS
- 05 Eddie Lowenstein - KA3VEJ
Rob Moore N2RM
- 06 Ed Faye - W3RCE
Joe Lerro - N3MUC
Pat Rush - WT3X
- 08 Jackie Chedeville (XYL W3GQD)
- 13 Mike Olin - N3OAA*
- 15 Joan Clifford (XYL W3UY)
Bob DiPasquale - WB3KAB
- 16 Ray Garvin - W3GRY
- 17 Len Kravitz - KD2CR
Ned Schlichting - N3EMN
- 18 Patricia Sullivan (XYL N3QMH*)
- 19 Hal Grace - W3HFY
- 21 Laura Lusky (XYL W3APD)
Jerry Shoaf - KA3NKT
- 22 Russ Miller - K3NYN
- 25 Fred Lamberti - KA3TLE
- 27 Bunny DiPasquale (XYL WB3KAB)
Carl Vold - W3SGR
- 28 Rik Richenbach - WE3D
Bess Rowland (XYL W3JIL)
- 29 Alice Faries (XYL W3AOA)
*Indicates New Member 93-94

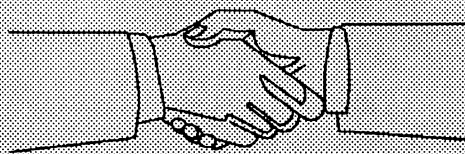
**HELP PHIL-MONT**

Are you planning to join ARRL or renew your current membership? Help P.M.R.C. by joining or renewing through the club... contact the Treasurer, Dave Witkowski - N3KGG, for details.

NEW DIRECTORY

With this issue, members received their 1994 P.M.R.C. directory. Some of you are aware that after the dues invoices were sent out, I changed computers. This change necessitated the manual reentry of all records. Therefore, in spite of several proof-readings, some entries may contain errors. If yours does, please let me know and I will note the correction in this column next month. My sincere apologies for any problems caused by these errors.





NEW MEMBER APPLICATIONS

CALL: **AA3EM**
 NAME: Jerry Shoemaker ✓
 HANDLE: Jerry
 CLASS: Extra
 ADDRESS: 2839 Springfield Road
 Broomall, PA
 19008

HOME PHONE: (215) 353-4196
 BUSINESS PHONE: (215) 359-9088
 OCCUPATION: Seafood Dealer
 INTERESTS: VE program

CALL: **WB3ERB**
 NAME: A.P. Conshick ✓
 HANDLE: Alex
 CLASS: Technician
 ADDRESS: 402 Robers Avenue
 Conshohocken, PA
 19428

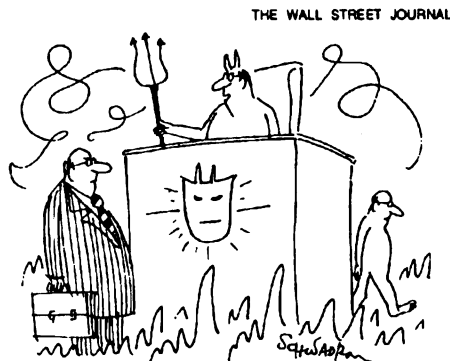
HOME PHONE: (610) 828-7168
 BUSINESS PHONE:
 OCCUPATION: Carpenter
 INTERESTS:

CALL: **N3RCS**
 NAME: Adam O'Donnell ✓
 HANDLE: Adam
 CLASS: Technician
 ADDRESS: 1817 Ripley Street
 Philadelphia, PA
 19111-2927

HOME PHONE: (215) 742-0325
 BUSINESS PHONE:
 OCCUPATION: Student
 INTERESTS: W3TKQ

CALL: **KA3SWU**
 NAME: Joel Kleinguenther ✓
 HANDLE: Joel
 CLASS: Extra
 ADDRESS: 519 Edgewood
 Andalusia, PA
 19020

HOME PHONE: (215) 639-2594
 BUSINESS PHONE: (215) 426-6776
 OCCUPATION: Merchant
 INTERESTS: VE program



"Your accountant won't be able to bail you out this time, Mr. Gordon."

The PREZ SEZ

Ed Masarsky, KB3IV



Enough already! I hope that by the time you read this issue of the *Blurb*, winter and its ravages will have disappeared. Of course we still have a pothole epidemic to remind us. Let's talk about some great outdoor Ham activities coming up.

It seems that our cup runneth over. The last weekend of June brings Field Day every year. This year it also brings Paddlerama. You will read about both these events in detail elsewhere in this month's issue. Both events have much to offer in honing our "Radio Skills." With the large and varied membership

Phil-Mont has, both events should be a success. Talk to each event chairman to help you decide which you want to participate in. Chris, N3IEI, is handling Field Day, and Steve, WU3I, is running Paddlerama. You may decide, as I have, to do both. If you have been coming to monthly meetings, and checking-in to our weekly nets, that's great. But the time has come to really dig into the meat of the hobby. Come out in the field, or along the shore, and fire up your rigs.

I'm looking forward to seeing many of you in June, outdoors in the sun... with your radios. ☺

W3TKQ Operators' Net

The last Wednesday of every month.
Don't Miss It!

UPCOMING

APR 6 General Meeting Program:
A W3TKQ Tour
 plus videos of its construction
 and dedication.

Apr 7 License Examinations at
 The Franklin Institute
 Apr 13 Directors' meeting at
 N3GMH's

MAY 4 General Meeting Program:
ARRL Night with
Kay Craigie, WT3P
ARRL Atlantic Division Vice Director

May 5 License Examinations at
 The Franklin Institute
 May 18 Directors' meeting

JUNE 1 General Meeting
 June 2 License Examinations at
 The Franklin Institute
 June 15 Directors' meeting
 June 25-26 **FIELD DAY**
 &
PADDLERAMA

HAMFESTS

April 10 **NEW CASTLE, DE**
 Penn-Del ARC

TRENTON, NJ
 Delaware Valley RA

April 16-17 **TRENTON, NJ**
 Trenton Computer Festival

April 29-
 May 1 **DAYTON, OH**
 Hamvention '94

May 7 **CHERRY HILL, NJ**
 South Jersey

May 15 **WRIGHTSTOWN, PA**
 Warminster ARC

May 21 **WARREN COUNTY, NJ**
 Cherryville Repeater Ass'n.

V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring the original, and one photocopy of their license. All applicants, including children, must present positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. **The ARRL VEC's 1994 test fee is \$5.75; there is no charge for a Novice test.**

•The FRANKLIN INSTITUTE

Monthly, 1st Thursday—Dusty Rhoads, ND3Q
 (215) 879-0505 day, (215) 482-0386 home

•BELLMAWR, NJ

Monthly, 3rd Thursday—Bill Helmatag
 (609) 546-7710

•BRYN MAWR

Irregularly—Bob Lees
 (215) 265-6032

•LEVITTOWN

Monthly, 1st Saturday—George LeNoir, WR3B
 (215) 943-4886

•LINWOOD, PA—(Commercial & Amateur Exams.)

Quarterly—Barb Levine, AA3DV
 (215) 859-9210, (302) 792-7760 home

•MORRISVILLE

Monthly, 3rd Thursday—Dave Munson, NM3K
 (215) 788-7515

•POTTSTOWN

Monthly, 1st Monday—Warren Erdman K3ZXQ
 (215) 679-5764

•TELFORD

Monthly, 3rd Monday—Warren Erdman K3ZXQ
 (215) 679-5764

•UNIVERSITY OF PA

Monthly, Last Saturday—Garrett Klein, WZ3G
 (215) 898-8538 shack, (215) 222-8752 home

•WARMINSTER

Odd Months, Last Wed.—Tom Michaud, WA3TQJ
 (215) 343-3494

PUBLIC SERVICE EVENTS

Charlie Weigand, AA3EP (215) 324-0167

April 10 Super Cities Walk
 May 14 M.S. Spring Classic Bike Run
 June 11 Arthritis Bikeathon
 June 25-26 Paddlerama
 June ?? Core States Bike Race
 Sept 17-18 M.S. 150 City-to-Shore Bike Tour

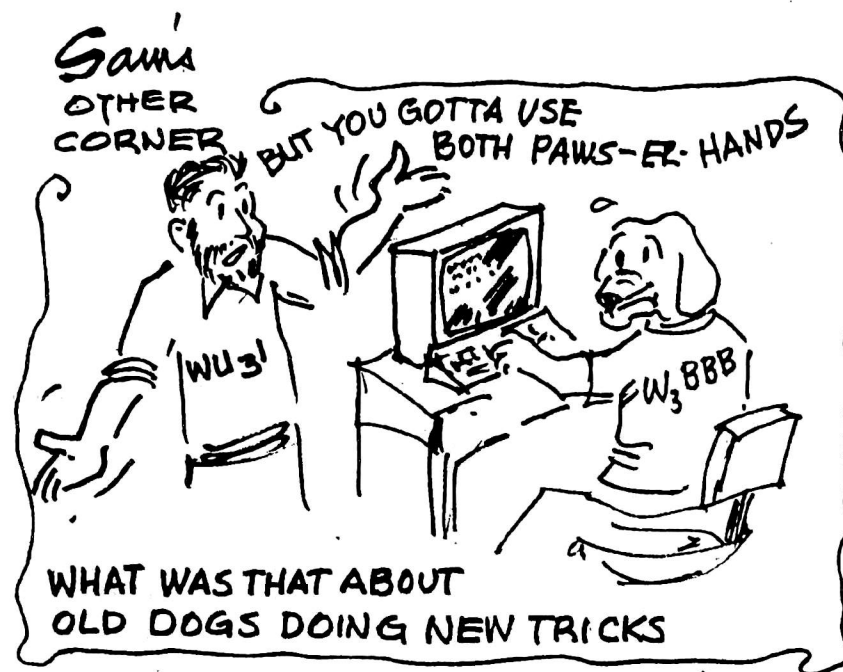
Letter to the Editor:

Darn tough for old timers over 50 and some of us young timers to get out to the meetings with such late hours. In recent on air discussion with W3GQD and W3PXY we would value much shorter business meetings with a max of about an 1½ hours. Roberts Rules are really boring but efficient to the business done and leave more time for the fun part. Great camaradie! -with informals afterward can take all the time needed into the wee hours and until you get kicked out. Besides more time for the belly hams. Anybody for that vote? besides us younger crowd. The meeting chairman can be rotated (with the agenda announced at start) and a timer appointed to get the meeting started on time with a business time limit. Put in your vote to our fearless and excellent leader if you have an opinion.

de W3PXY.

P.S. Read the article in Feb. QST about telephone RFI. The bottom line is don't call the telephone company to solve telephone interference if the problem involves anything to do with radio and RF systems. The author suggests total incompetence - you be the judge.

P.P.S. Pay attention to all this Paddlerama stuff that's coming up! It's even more fun than playing football in the cow pasture!



tem. The bulkhead panel should be used as the common ground for all of the station equipment, including coax, power and telephone lines.

Many people believe that the safest amateur radio practice is to completely disconnect antenna feedlines from equipment whenever they are not in use. The problem with this is that flashovers at the open end of the coax could destroy the feedline. While equipment in the shack may seem protected, leaving this path disconnected could cause a strike looking for a path to ground somewhere else in the shack. Antenna feedlines offer large surface areas and relatively low impedance paths into the radio room, and the consequences of leaving the ends of a coax feedline "open" can be bizarre when strike energy is left to find its own way to ground.

The safest practice is to properly protect the feedline(s) with good quality secondary lightning protectors, and leave the transmission line(s) connected. If you insist on disconnecting the antenna feedline, thoroughly ground it, don't let it hang open. ☺

This series concludes next month.

Positively Positive!

by Bob Wilcox KE3CZ

Do you hear all those new call signs on the airwaves? They're everywhere! Here is the opportunity of a lifetime to show just how good the Amateur Spirit is.

Now, I know I have written a lot about putting the best foot forward, and some may be getting a little tired of hearing it, but I keep writing it so that those that have not read it, or just plain and simple ignored it, catch on to the good that can be done by presenting a good operating procedure to the new hams. The first impression should give a new amateur the feeling, "hey, I'm

glad that I waited all this time for this ticket," not, "what a waste of time and effort."

Each and every one of you may be a new amateurs first contact! His or her first impression! Would you want your spouse, children or grandchildren to have their first experience with amateur radio to be with someone who shrugs them off, or worse yet, is a little bitter by their activity? Not only that, but we don't know for sure how many others are sitting there monitoring.

Amateurs and non-amateurs may hear this, and form an opinion about you. "So what," you might say. Well, what would happen if enough folks listened and said, "I just can't be bothered talking to him/her?" I'll tell you, eventually no one would want to talk to you, or they might want to, but hold back for fear of the same thing happening to them.

When you hear someone out there on the repeaters, you should also remember that you may be representing the club that supports the repeater, the folks that generally use the repeater on a regular basis, or the local community where the repeater operates. You could be sending a bad signal (in more ways than one) to many, and at the same time, be injuring the good name of others.

Let's get positive!

When we hear some others on the frequency, welcome them. If they need a signal report or information, try to assist in a friendly manner. If they ask what you think might be a stupid question, remember, to them it is not stupid or they wouldn't be asking it. The only stupid question is the one you never ask, and then spend the rest of your life never knowing the answer to. Be positive, it will make others, and you, better because of it! ☺

MINUTES

FEBRUARY DIRECTORS' MEETING

Bob Wilcox, KE3CZ, Secretary



My partner and I were called to the house of N3KGG to investigate the apparent theft of the January Directors' Meeting.

KB3IV called the group to order at 8:12 p.m.

The usual suspects attended: KB3IV, WU3I, WB3KOJ, K3KUD, AA3EP, N3KGG, W3RM and KE3CZ. W3BBB claimed to be the victim!

N3KGG, trying to look innocent, reported on very good financial numbers as well as good renewals. All bank matters have been taken care of, and any stragglers are asked to GET YOUR DUES IN!!!

K3KUD for the Audit Committee: everything was submitted and everything was as it should be. KB3IV thanked Bob for his efforts, as well as supplying accommodations for the meetings of the committee.

KB3IV for membership, in the absence of AA3BB, reported on one new applicant to be voted on, Phillip Swartz, N3RBX. Motion to accept was made by WU3I, seconded by W3RM. The motion was carried unanimously. Welcome to Phil!

AA3EP for Special Events, reported on several upcoming events. April 10th is the Super Cities Walk, and on May 14th, the Spring Classic Bike Tour. Charlie is always looking for a few good Hams! Also noted was that the 147.030 machine will be used for the May 14th event.

So far this crew seemed to be squared away, so the investigation continued.

'BBB for Emergency... Well, that is what his reply was. Nothing! (This led us to further suspicion of this gentleman.)

'BBB for Paddlerama, said that 'PXY would keep us informed. (9 out of 10 convicts blame it on someone else.)

KB3IV for Net Controls, said that anyone that was interested in becoming a Net Control Station, please get in touch with him. He also reported that the Net Controls were all doing a fine job.

WU3I reported on the upcoming General Meeting programs, which our fearless Editor has printed in the *Blurb* well in advance for your viewing and reading pleasure.

WB3KOJ on the *Blurb* folding: "it's folded!" (Hmmm, sounds like someone else, maybe this missing meeting was a conspiracy!)

W3BBB reported on the repeater, and suspiciously made a comment, even if it was only that the costs of running the autopatch hadn't changed much since 1992.

WU3I for the VE Program, stated that he has acquired all the numbers from the VE Team, except for the first four sessions, and also submitted a copy which has been duly recorded. VEs can always be utilized, so if you're a General Class licensee or above, call Dusty, ND3Q. W3RM noted that all 610 forms must have November 1993 on the bottom, otherwise it would no longer be accepted by the FCC.

WU3I for W3TKQ, received a letter

from Bill, KB4MIA, regarding the station, as they are placing a ham radio station in the Science Museum in Virginia. Steve will be supplying them with video tapes of the rebuilding of W3TKQ. Also, KB3IV reports that a volunteer, 18 years or older, and a holder of a general ticket or above, is needed at the station on Thursdays. He also has worked out the Ten-Tec being sent back to the factory, and fixed *under warranty!*

KB3IV reported on the possibility of club jackets with the logo, which was well received, more on that as it gets firmed up. **NEW BUSINESS**

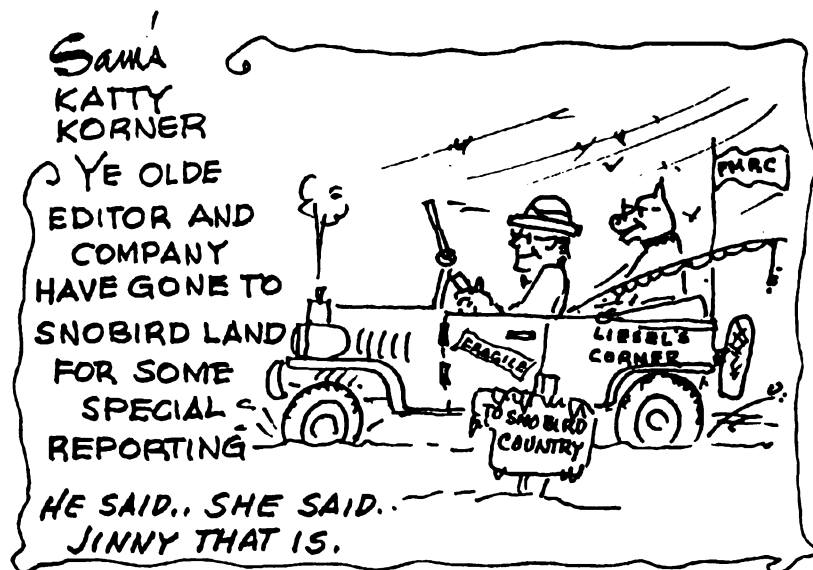
KB3IV read a letter from WB3KOJ requesting that the club consider reimbursing 'BBB for his expenses that he incurs keeping the repeater in tip top shape. The idea was tabled... (presumed to be another of Don's jokes, I think.) Spencer was the biggest opponent to this idea, as he claimed he does what he does because he likes it! (I think this is where he knows that he had better start building up a temporary insanity plea) *[Wouldn't you know it, the one meet-*

ing I miss. Hey guys, how about the editor's expenses... toner, paper, memory chips, phone calls to Don?—ed]

K3KUD made a motion to make the two Charter Members, W3BBB and W3PXY Lifetime Members, giving them all the rights and privileges of membership, and relieving them of the responsibility of paying dues. The motion was seconded by WU3I, and there were no dissenting votes. And they said we wuz cheap!

W3RM reported on the Vanity Call-sign program, that could be implemented soon, and also noted that the Instant Call-sign program, that is before the FCC, may be in jeopardy, as it has been met with much resistance from the ARRL.

Having nothing further, KB3IV called the investigation to a close at 10:27 p.m. Knowing that somehow 'BBB had something to do with the missing mid-month, we still didn't have the evidence to take him in, so Ed ordered us all back to do it again next month. Besides, someone stole a General Meeting in March! ☹



Still More on Lightning, and Lightning Protection

This is the third of four installments.

Gene Pressler, W3ZXV

Continuing our series on lightning, in this article we will try to outline the basics of a good lightning protection system.

First, there are various kinds of lightning protection devices available on the market. Most familiar are air gap protectors. These depend on simple air gaps which allow the energy from a lightning strike to bridge this gap en route to ground. Their limitation is that they have high "firing voltages" which permit a portion of the energy received to be shared with the equipment connected to them. With modern transistorized equipment, these voltages are usually high enough to do serious damage to the equipment they are designed to protect.

Next in the hierarchy of lightning protection devices are units which depend on small ceramic gas discharge elements. These operate at lower voltage thresholds, typically firing at around 90 volts. Although gas discharge devices operate at speeds faster than the average voltage rise time of lightning, voltages may still be high enough to subject the equipment they protect to damaging voltage surges.

The best units feature gas discharge tubes and other components in a configuration in which there is no dc continuity, and they operate fast enough to allow very little throughput energy to reach the protected equipment.

Antenna structures, whether installed on the house, or standing free at a distance from it, should be installed with careful

attention. Feedlines should be installed with sharp angles away from the antenna. Ground wires should be installed in as straight a line as possible to driven ground rods. Ground conductors should have large radii and all metals in the ground system should be similar.

Earth grounds should be considered as parts of a ground system. Individual ground rods, including the house service entrance and any other ground points, should be tied together as part of the ground system. Failure to do this could defeat any installed protection by allowing the potential between different earth grounds to pass through the protected radio equipment, using it as a very expensive shunt.

When copper is connected to galvanized steel, for example, a copper-zinc battery is created, and this sort of connection will corrode and fail in a matter of days. Bronze, or stainless, "transition clamps" should be used where dissimilar metals are joined.

Antenna towers should be grounded at the bottom of the lowest section, and guy wires, where used, should each be grounded. The coax shield of the transmission line(s) should be grounded at the bottom of the tower, and good lightning protection devices should be used at the point where feedline and rotator control lines enter the house.

The point of entrance for the station antennas should be a metal "bulkhead panel," large enough to accommodate the mounting of the protection equipment. The

PADDLERAMA 1994

Steve Hoch, WU3I

For those unfamiliar with the name, Paddlerama is a 2-day 50-mile canoe race on the Delaware River. The participants are Boy and Girl Scouts of the Bucks County Council.

Phil-Mont has been involved in the past, but interest waned with the recent small number of canoes. It has come to our attention that the popularity of this race has rebounded, and participation is better than ever.

PMRC was asked to, once again, provide communications for health and welfare for the scouts. This year's dates are June 25 & 26, the last weekend in June. I know that this is Field Day, so there will be an HF station in the campground for those who need a "fix."

The race starts on Saturday at the Delaware Water Gap, and ends the first day in Easton. There will be dinner at the campground, and breakfast on Sunday morning.

The second half continues Sunday in Easton, and ends at Tinicum Park on river road. We'll have a 'sweep canoe', with 2M, on the river, following the last scout canoe.

Things have changed since the last time Phil-Mont was involved, so now there are only two teams or relays per day, with 3 sets of gates per relay (may increase to six teams this year). There are judges at each set of gates and relay changeovers, so we need operators at each of these points. Our duty is to transmit any health and welfare traffic, and to transmit the race data to the head timekeeper, who will have an operator assigned to him. The data from the gate and relay judges is vital to the race, and will be handled appropriately.

I encourage all those interested to join us, if even for only a day, and experience the fun. Contact me on the repeater, or call me at (215) 535-8061 for more detailed information. ☺

NEWSLETTERS EXCHANGED

Anne Arundel Radio Club (Maryland)
Baltimore Radio Amateur Television Society (BRATS)
Chaverim of Delaware Valley
Cherryville Repeater Association (NJ)
Delaware-Lehigh Amateur Radio Club (DLARC)
Delmont Radio Club
Fort Myers Amateur Radio Club (Florida)
Marple-Newtown Amateur Radio Club
Mid-Atlantic Amateur Radio Club (MARC)
Mobile Sixers Radio Club
Penn Wireless Association
R F Hill Amateur Radio Club
Reading Radio Club
Sanibel Amateur Radio Emergency Unit (Florida)
Sussex Amateur Radio Ass'n (SARA) (Delaware)
The 96 Over The Hill Gang (New Castle, Delaware)
Tompkins County Amateur Radio Club (New York)
Warminster Amateur Radio Club
Worldradio Magazine
Exchanges with additional parties are welcomed.

CHARLIE'S ULCERS

Charlie's getting worried whether he'll have enough operators to help with the Super Cities Walk, on Sunday, April 10th!

A change in the route of travel will require more than normal support from the amateur community. Please call: (215) 324-0167

MINUTES

MARCH DIRECTORS' MEETING

Bob Wilcox, KE3CZ, Secretary

Ed, KB3IV, called the meeting to order at the home of WU3I and N3FTC at 8:15 p.m. Everyone paid attention and listened at 8:20.

Attending were, W3PXY, AA3EP, AA3CH, W3STW, WU3I, N3FVI, WB3KOJ, W3IIM, W3IIN, N3IEI, KB3IV, W3RM, AA3BB, N3KGG and yours truly, KE3CZ.

N3IEI for Field Day, reported that there is a site in Roxborough with power, facilities and shelter. The response by the members has been light, so let's get on the ball. Look for an article from Chris about Field Day and Phil-Mont's involvement.

N3KGG on the Treasury.....

KB3IV for the Budget and Audit Committee: chairman, K3KUD, sent a round of thanks to all, and noted the fine work by W3IIN as the 1993 Treasurer.

W3IIN displayed the AK2I memorial art work by resident artist N3QIE, Sam, that will be given a proper place at station W3TKQ. We miss you Jake, and will carry on in your many efforts!

N3KGG on the Treasury.....

WB3KOJ, in his second cameo appearance, reported that the Directory is here, in this issue, just look for it. If you are not listed, you will be in the supplement [once you pay your dues—ed]. Hate to say it, but Don does a good job.

W3STW noted that the OMIK Club, of which he is President, will be taking trip to ARRL HQ. Anyone interested in going along, give Al a call. Trip date is June 5th.

AA3CH for Education: his six students at The Institute are making great progress, and Russ also reported that although it was slated as a No-Code Course, many of his students are doing well with the code, and he hopes to have some General Class licensees.

N3KGG on the Treasury... (Calculator issued)

N3DHI by phone, reported that repeat TX time between January 10th and March 13th was 5.88 hours a day. I guess when you listen it just seems like it is much, much longer! [Yes, but at 5 a.m.?—ed]

AA3CH noted, in the area of Emergency, that it is very rare for a station in Philadelphia to check into the RACES Net which is held on Sundays at 9 a.m. on 3887.5. Check-in if you can.

AA3BB for Membership: there were three applicants to vote on, they were; Jim Foley—N3PRA, Bill Sullivan—N3QMH and Henry Platt—W3UI. WU3I [not a typo—ed] made a motion to accept; W3STW seconded the motion; there were no dissenting votes. Welcome to the new members. There will be 4 applicants to vote on next month.

N3KGG on the Treasury... (Claimed calculator was faulty.)

KB3IV for Net Controls: Ed said that he felt the nets were still as steady as a rock. N3KGG reported on behalf of KA3TLE that the nets should have some more conversation between members (similar comment made by W3QZO in his Pro-Phile). Ed said that everyone is welcome to stay in

there and chat, as there is no rule about post-net QSOs! Something else will probably be in the works as well...

Programs reported on by WU3I: moving right along, and the film "Every Single Minute" was recommended for Old Timers' Night.

N3FVI for refreshments, promised that last month's refreshments will not be used at this month's meeting.

AA3EP for Special Events: now it's coming down to crunch time for Charlie, and he needs you and your radio! The April 10th Super Cities Walk has had a route change, and he is in dire need of 14-20 more operators. He also needs more ops for the May 14th Spring Classic.

WU3I for Paddlerama, reported plans are being made to be involved with this event. W3PXY reported that at this time there are 12-14 canoes projected. This event is also scheduled for the same weekend as Field Day, so your participation would be appreciated.

N3KGG on the Treasury... (Back to the pencil and paper.)

AA3CH for the VE Team: even with the bad weather, there was a crowd, and many new and upgrading amateurs.

N3FVI reported that the Ten-Tec was returned to W3TKQ and repaired under warranty. He will be scouring the hamfests in search of a 2-meter rig and a band pass filter. WU3I reported that W3STW contributed an MFJ slow scan unit that is the next best thing to the state of the art. KB3IV reported that the computer situation at the station will be reevaluated, to stay ahead of the game, rather than always trying to catch up.

NEW BUSINESS

KE3CZ read correspondence from AA3CH, who donated a 19.2 DRSI modem and a TEKK radio for W3TKQ to use for its BBS forwarding. This would take the forwarding off two meters, placing it on 440 MHz, to free 2-meters from the forwarding congestion. KB3IV thanked Russ on behalf of the club.

N3KGG on the Treasury, "we're doing okay." (Whew!)

W3RM made the motion to adjourn, seconded by AA3EP, and everyone scurried off to the goodies provided by N3FTC. (Now you know why the attendance was so high.) ☺

FIELD DAY

Spring has sprung! And blooming right behind it are Phil-Mont's plans for a successful 1994 FIELD DAY outing.

The last weekend in June is fast approaching, and there are many loose ends to be tied if this event is to be a success. So far, interest has been light. *We need operators!!!* If you are interested in Field Day, I need to hear from you. Our plans are to go at this thing like a bull!

I'd like to get a couple of members that have particular interests to be Band Captains. These op's will be responsible for a particular band, like 75-meter phone, 20-meter CW and satellite operations. Within each group, we'll organize our needs for each band. Antennas, computers and rigs are all needed to get this thing moving!

If you can commit yourself for a weekend, or perhaps just a few hours, I'll pencil you in. Realize that this is a team effort and everyone will have the chance to operate

ZCZC AG90

QST de W1AW

ARRL Bulletin 26 ARLB026

From ARRL Headquarters Newington CT March 14, 1994

To all radio amateurs

PHONE INTERFERENCE SURVEY

The FCC has released the results of a telephone interference survey just completed. 35 FCC field offices each picked three random cases of telephone interference on record and then visited the scene. The transmitting stations included 47 Citizens Band 27 amateur 23 AM broadcast 10 FM broadcast and one international broadcast station.

At the location experiencing interference, the FCC's Field Operations Bureau personnel would first test the telephones on site, and then test their own "bulletproof" telephones, as well as several commercially available filters. 241 different telephones were tested.

Among the FCC's conclusions was that transmitter power did not seem to be a significant factor they said that 10 watts or less caused telephone interference in one-third of the cases.

The FCC also said that filters worked only one-third of the time. "Manufacturers can design telephones to be interference free," the Commission said, citing its bulletproof telephones, which were immune from interference "VIRTUALLY all of the time."

The FCC said that it hopes that the survey will encourage affected parties "to productively address and resolve this problem."

If you would like a copy of the survey, which includes a list of telephone models checked, send an SASE with two units of first class postage to the Technical Information Service at ARRL HQ.

NNNN

via KE3CZ

THE

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REPORT

It has been since December since we have talked, and not a lot has changed. It has been much too cold and windy to do the roof work, but the inside is always there to work on.

The TEN-TEC OMNI VI has been returned to the manufacturer for warranty repairs, and acknowledgment has been received that it has arrived in Tennessee at the factory.

We need Thursday operators; there is, as of this writing, no regular operator for Thursdays.

We are still looking for the donation, or the loan of, a 2m/70 cm dualband rig to try out in the station. A Kenwood was tried, but found poorly resistant to the center city intermod.

Another AT computer is in the assembly stages for the upcoming STATE OF THE ART SSTV console in position six. It will replace the robot 400 donated by Hal-W3HFX some time ago. Some components are received some are still needed: an IDE hard drive, 40 meg or larger, and a VGA monitor are necessary. The SSTV will be on the TEN-TEC OMNI VI, and we will have provisions to connect it to the ICOM 970 for future SAREX contacts.

I would like to thank the 57 members who contributed with their renewals \$534 for the station's maintenance fund. This will help to keep the station maintained, and possibly purchase some of the new gear we would like to have.

Please join me at the April meeting, for the snow-delayed video presentation of the rebuilding of W3TKQ through the dedication ceremonies. This program was originally scheduled for the March meeting.△

—Steve Hoch, WU3I

bands you might not ordinarily have privileges to get onto. For those of you that are 'Codeless Technicians', this will be an excellent chance to get on HF.

Presently, we are planning to hold Field Day at a location in Roxborough. I felt that this will be a fairly convenient place for everyone to meet, and it's also pretty easy to find and has shelter and rest facilities.

So along with my request for able-bodied HAMS, we'll need the following equipment for FIELD DAY 1994: HF radios, portable HF antennas, VHF & UHF rigs, yagis for UHF & VHF, power supplies, portable generators, laptop computers, packet equipment, satellite equipment, AC cords, coax (lots of this!!), and portable barbecue grills.

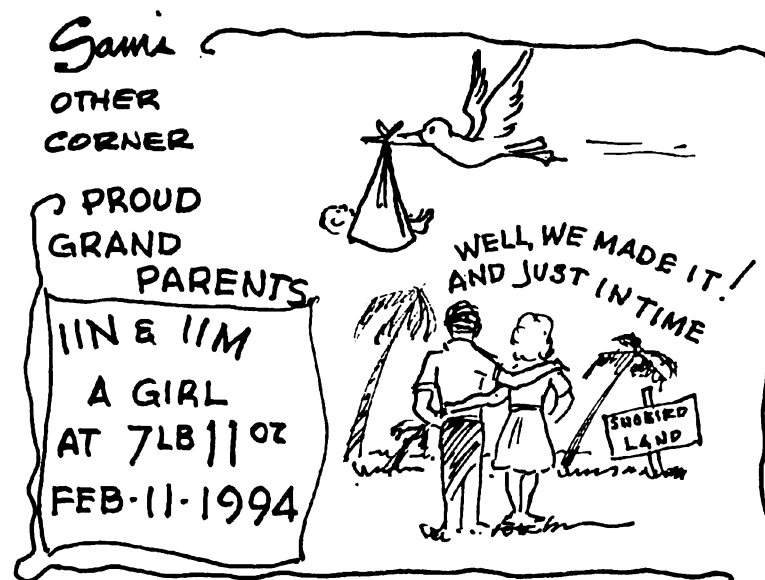
Don't be shy. Give me a call during weekday evenings, and let me know where to pencil you in. Realistically, we're probably going to need upwards of 20-30 operators. This will enable us to get everything set-up and running. The tough part comes at

night, when the daytimers get a little weary and need a replacement. And those of you that can make the dashes and dots mean something, wow, we really need to hear from you... on the phone of course, and as soon as possible!

Feel free to give me a call so I can add you to the operator's list, and get an idea about what bands you would like to operate. Field Day VETS, we want to hear from you too! I can be reached @ (215) 885-6143. 73 de Chris, N3IEI. △

Announcement

The Del-Val OMIK [Ohio Michigan Indiana Kentucky] Electronic Association is sponsoring a trip to the ARRL HQ on Sunday, June 5th. Interested?—call Al Tribble, W3STW, at (215) 639-6771. Deadline is May 5th.△



Is Amateur Radio Harmful To Our Health?

A.D.Carroll, Sr., K3GNK

When it was reported in an Associated Press release that there was an increased rate of death due to certain types of cancer in amateur radio operators, we began to be alarmed and worried. The reported association of leukemia and other blood cancers with amateur radio is to say the least alarming to us all. The effect of electromagnetic radiation can be devastating.

Radio frequency waves are a form of electromagnetic waves, and, in frequencies of concern to amateur radio operators, these represent a form of nonionizing radiation. This is the form of radiation that we have to be concerned with. Experiments regarding the effects on human tissue in nonionizing

electromagnetic fields have been conducted for many years. The finding of these studies indicate that a modulated electromagnetic field, that is, one in which the energy is cycled on and off, or is varied by intensity or frequency, has a greater inhibitor effect on the ability of the cells in the body to communicate with each other than does a field in which current remains at a steady and unmodulated strength. Could it be that nonionizing energy does not necessarily cause cancer, but that it may act instead to promote the efficacy of other agents in doing so?

Milham concluded that amateur radio licensees in California and Washington State

Sams
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WB3KOJ
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RUNNING A
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APPLE BYTES
PAGE
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TO REPLACE
APPLE BYTES.
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107TH MONTHLY VE SESSION STATISTICS MARCH

14 candidates passed 15 elements
3 new amateurs plus 1 upgrade

VE team members:

Dusty Rhoads, ND3Q, Chairman
Russ Stafford, AA3CH; Barb Levine, AA3DV;
Henry Mapps, K3DXI; George Starks, AA3FU

AMATEUR LICENSE EXAMS HELD ON THE FIRST
NON-HOLIDAY THURSDAY OF EVERY MONTH
Registration begins at 6:00 PM

Doors close at 6:30 PM sharp

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The FCC's new, simpler **Form 610**, dated November, 1993, must be used for all exams, renewals, changes of address, etc., effective March 1, 1994. Previous versions of the form are no longer valid, and Gettysburg will not process any obsolete forms. The new forms are normally available at station W3TKQ, and at the general meetings.

"DON'T TAILGATE... WAIT"—for the courtesy 🚗!

at these distances. When loading an amplifier, do it quickly, and move away. The remote ones are much safer for the operator.

Computers

We seem to be moving to the digital modes, more and more. The computers that we use are also a possible threat. A growing number of studies have concluded that ELF magnetic fields of a similar type and level produced by video monitors may be a factor in unusual occurrences of cancers, birth defects and other health problems. Most computers measure 20 to 30 milligauss at the screen, and only break off to safe operating levels at a distance of about 3 feet. The sides and tops of computers measure even higher, about twice that of screen measurements, safe operating levels would be about 4 feet.

I think that we must be very prudent in our use of hand-helds, mobile units, amplifiers and computers. Remote mikes for hand-helds, remote locations for mobile operations, and to be at arm's length from computers and amplifiers. ☺

500 N. Temple Blvd. Temple, Pa, 19560

Call

1-800-32-NEW-HAM

for free information for
prospective hams

GOODIES

Heathkit 101, SB, 110 watts, w/power supply and spares. Guaranteed operational, good starter rig. \$110

Computers:

2-Tandy model 4 @ \$50 each.

1-Tandy model 3, needs work, good for monitor.

2 Double-side 5¼ drive spares

Make offer.

W3PXY, George (215) 968-4483

~ ~ ~

Alinco DJ-180 2-meter HT with 2.5w battery, and extra 12volt battery pack

Almost new—asking \$230.

N3PDO, Michael (215) 423-0951

Doylestown Amateur Radio Club announces meeting schedule

The Wyndmoor Amateur Radio Repeater Club of Doylestown has set its meeting dates for 1994. The amateur radio club meets the first Monday of each month, excluding holidays, at the Doylestown Township Building Community Room on Wells Road at 7:30 p.m.

Membership in the club is open to licensed amateur radio operators, and those who are interested in becoming radio amateurs. The club features speakers and videotapes on interesting topics concerning amateur radio.

Members also attend informal weekly gatherings to study for license tests, work on equipment and to socialize. In addition, weekend excursions to ham radio events are often scheduled.

Monthly meeting dates are April 4, May 2, June 6, August 1, Oct. 3, Nov. 7 and Dec. 5.

For information, call club secretary Bob Agans 348-7966. ☺

The Doylestown Patriot

do have a higher death rate due to myelogenous leukemia, multiple myeloma and possibly other specific types of lymphoma. He felt that exposure to magnetic or electrical fields, as a consequence of work or hobby, should be considered among these rates.

What does this mean to us, as amateurs?

We all know that there are plenty of risks in all activities we do every day. How many of us still smoke, or are overweight, or do not bother to fasten our seatbelts in our cars. Knowing about risks only sometimes causes us to change our ways. As amateur operators we certainly have no hesitations about discussing and protecting ourselves against high voltage circuitry. Nor do we shy away from trying to prevent the risk of accidental falls from roofs or antenna towers. Likewise we should recognize the fact that we are exposed to all these fields. No one is absolutely certain about what might be causing this increase of special cancers. Therefore prudence dictates that amateur radio operators should take these simple measures which decrease the possibility of our personal exposure to electromagnetic fields that we may come in contact with as a consequence of our interest in amateur radio.

What are the dangers and how can we take preventive measures ?

I use a Walker Scientific, Inc. gauss meter that measures both gauss and milligauss electromagnetic fields, known as (ELF) extremely low frequencies, which can be measured and designated as "probable" human carcinogens. Body tissues that are subjected to large amounts of energy can suffer serious heat damage.

Hand-Helds

Hand-Helds are a high risk in particular, because I get a reading of 675 milligauss being held at a distance of six inches from my face, operating it on low power. This is entirely too much RF energy absorbed by tissues in the head (eyes, brain, muscle, fat and bone). Safe amounts of radiation are said to be about two milligauss. You should never operate a hand-held without a remote mike setup. If you use a rubber duck as an antenna, restrict hand-held operations to listening only. Transmission should only be made in an emergency situation. Mobile operations should be discontinued when the transmitter is close to operator. Most mobile units measure about 350 milligauss, far too high. If you want to operate mobile, I suggest you purchase a remote controlled unit. My Kenwood 732-A measured 350 milligauss, but I installed it in the back end of my Suburban and there is no measured milligauss at the operator's position.

Linear Amplifiers

Amplifiers may pose health problems, also. One should not stand or sit too close to one's power supply or linear amplifier while operating, even when they are in the standby mode. Warnings have been issued about the potential health hazards of older linear amplifiers. The older the amplifiers the higher the ELF, due to less effective shielding. My 40 year old Hallicrafters HT 33-A, measures 350 milligauss at a distance of 6 inches from the unit, and when I operate at a distance of 3½ to 4 feet, it drops to zero milligauss. My Kenwood 922A amplifier measures 250 milligauss, and drops to zero milligauss at 3 feet. To be on the safe side, one should operate his/her linear amplifier

1994

APRIL

1994

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<i>It is impossible to take seriously a health plan from a man who loves french fries!</i>		3/29 CODE PRACTICE NET at 8 PM N3ALW	3/30	3/31	1 <i>Good Friday</i>	2
3  2M NCS KB2ERL 10M NCS W3H FY 75M NCS W3P WG <i>Easter Daylight Savings Begins</i>	4	5 CODE PRACTICE NET at 8 PM N3FVI	6 GENERAL MEETING at The Franklin Institute Refreshments at 7:00 p.m. Meeting starts after 7:30	7 LICENSE EXAMS at The Franklin Institute Registration begins at 6:00 Doors close at 6:30 p.m. <i>sharp!</i>	8	9
10 2M NCS KB3IV 10M NCS W3H FY 75M NCS AA3CH <i>New Castle & Trenton Hamfests</i>	11 	12 CODE PRACTICE NET at 8 PM K3JJO	13 DIRECTORS' MEETING at N3GMH's <i>Thomas Jefferson 1743</i>	14	15	16 <i>Trenton Computerfest</i>
17 2M NCS N3FTY 10M NCS W3H FY 75M NCS AA2FU <i>Trenton Computerfest</i>	18	19 CODE PRACTICE NET at 8 PM W3RM	20	21	22	23
24 2M NCS W3GQD 10M NCS W3H FY 75M NCS KB3IV	25 	26 CODE PRACTICE NET at 8 PM W3STW <i>U.S. Grant 1822</i>	27  OPERATORS' NET at 8 PM	28	29 <i>Dayton Hamvention Begins</i>	30